

Title: WAFER ENGINE
Docket No.: ASYS8196US0
Serial No.: Unknown
Confirm No.: Unknown
Filed. Herewith

Inventor(s): Anthony C. Bonora et al
Attorney: Scott D. Sanford
Phone: (415) 362-3800
Express Mail No.: EL670726207US

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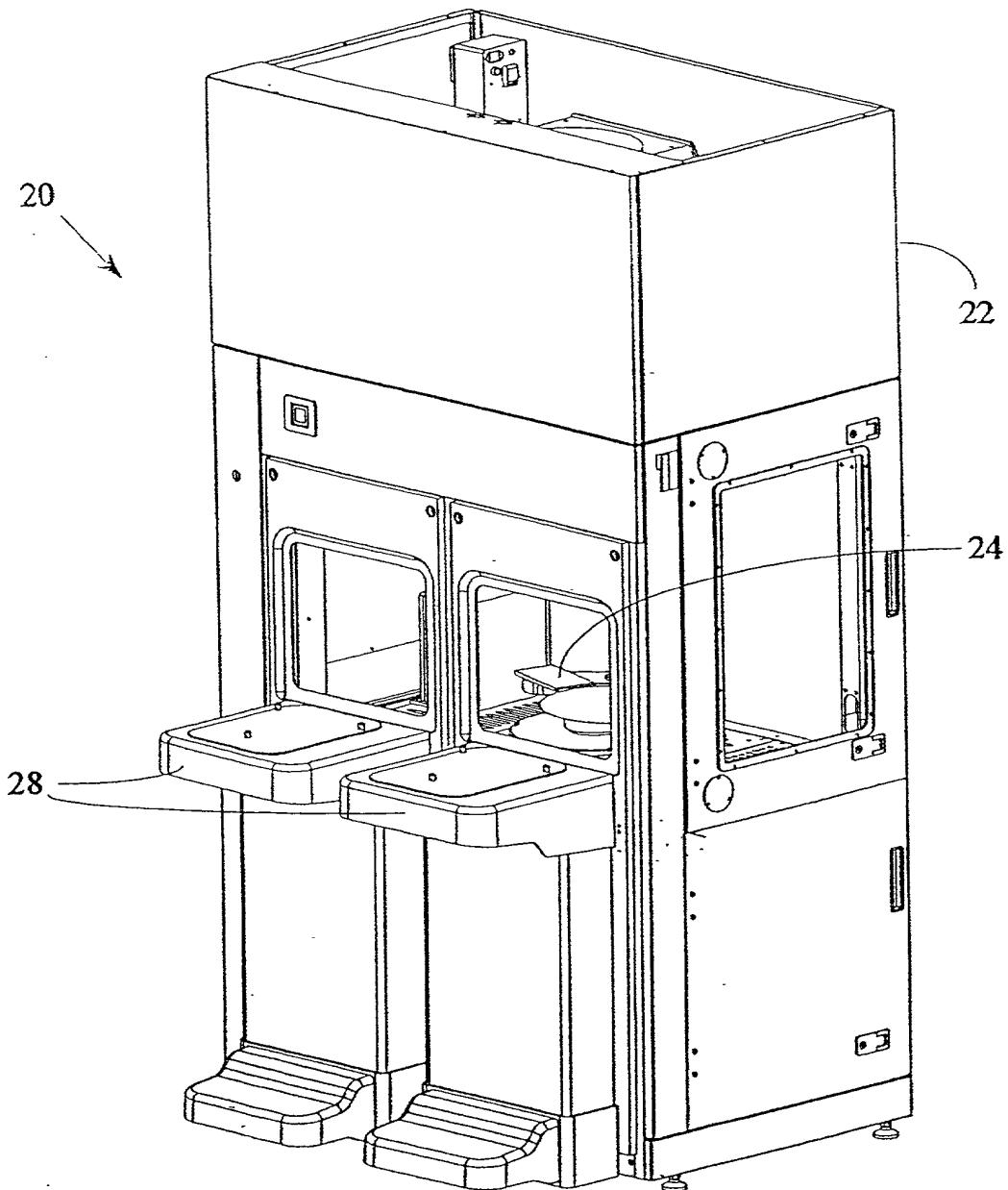


FIG. 1

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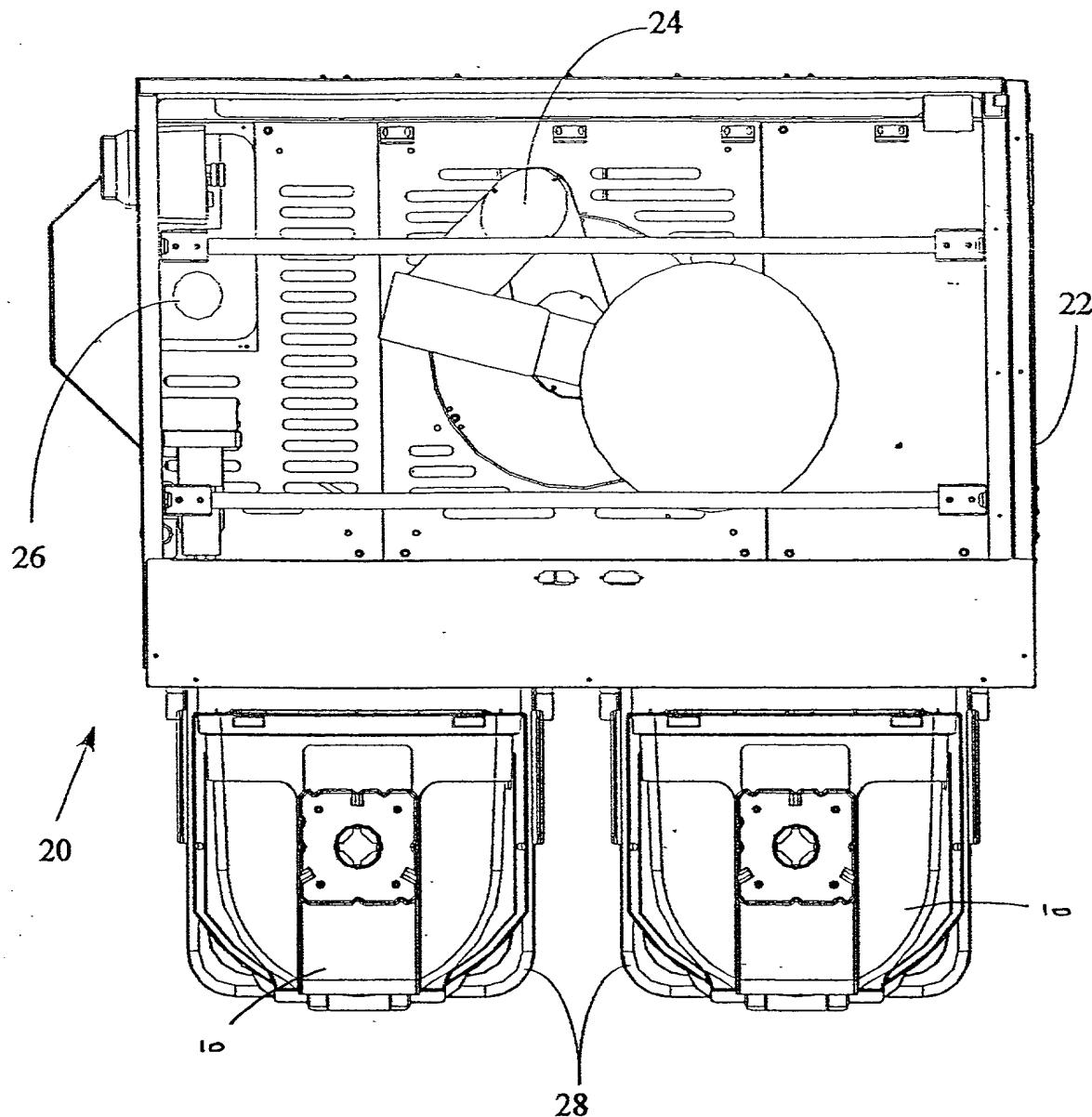


FIG. 2

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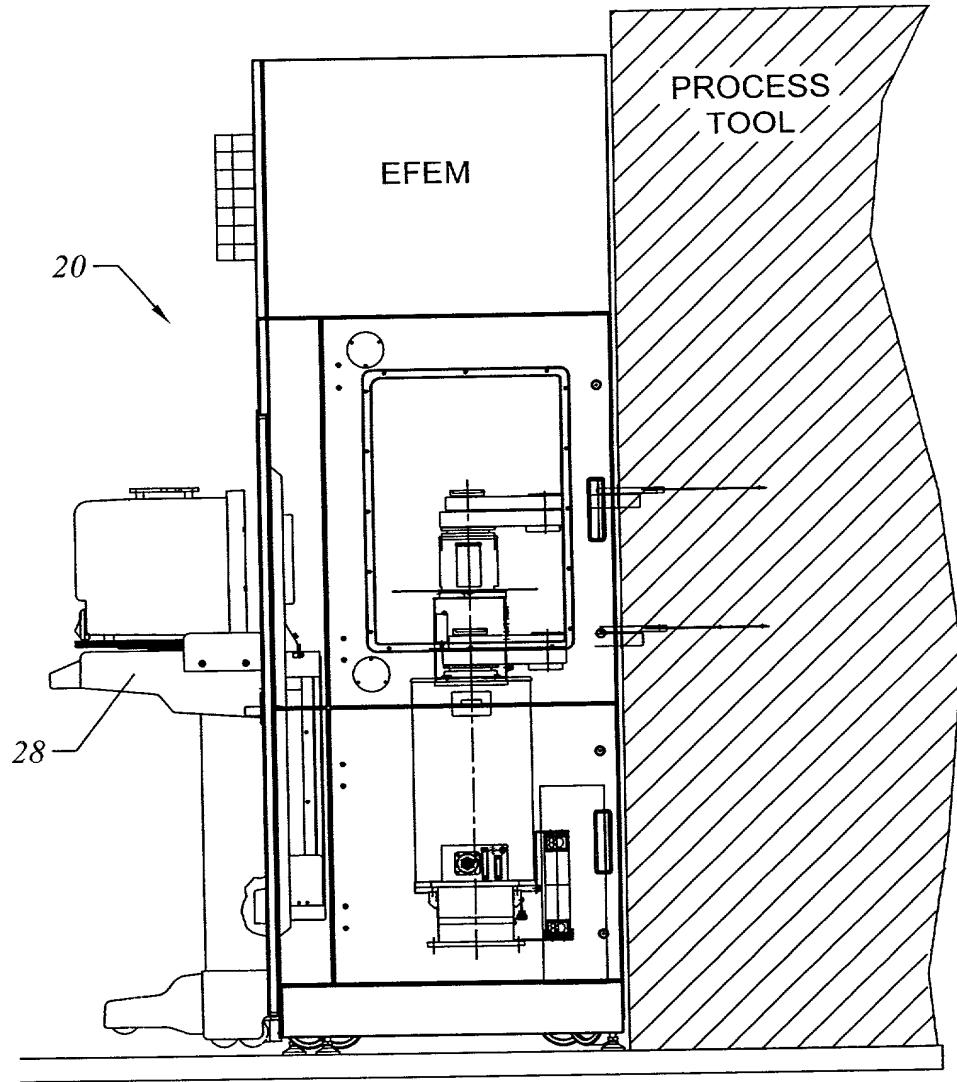


FIG. 3

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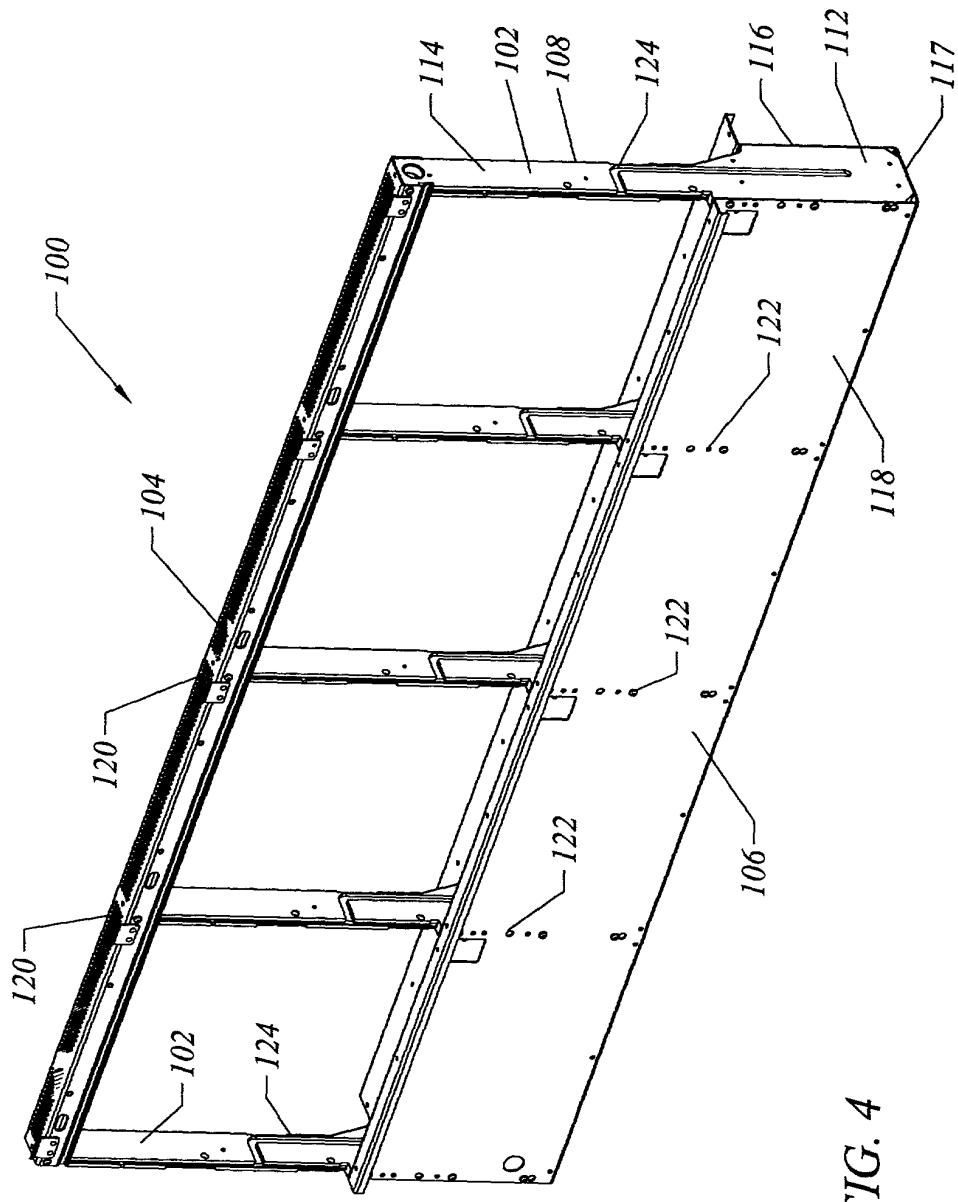


FIG. 4

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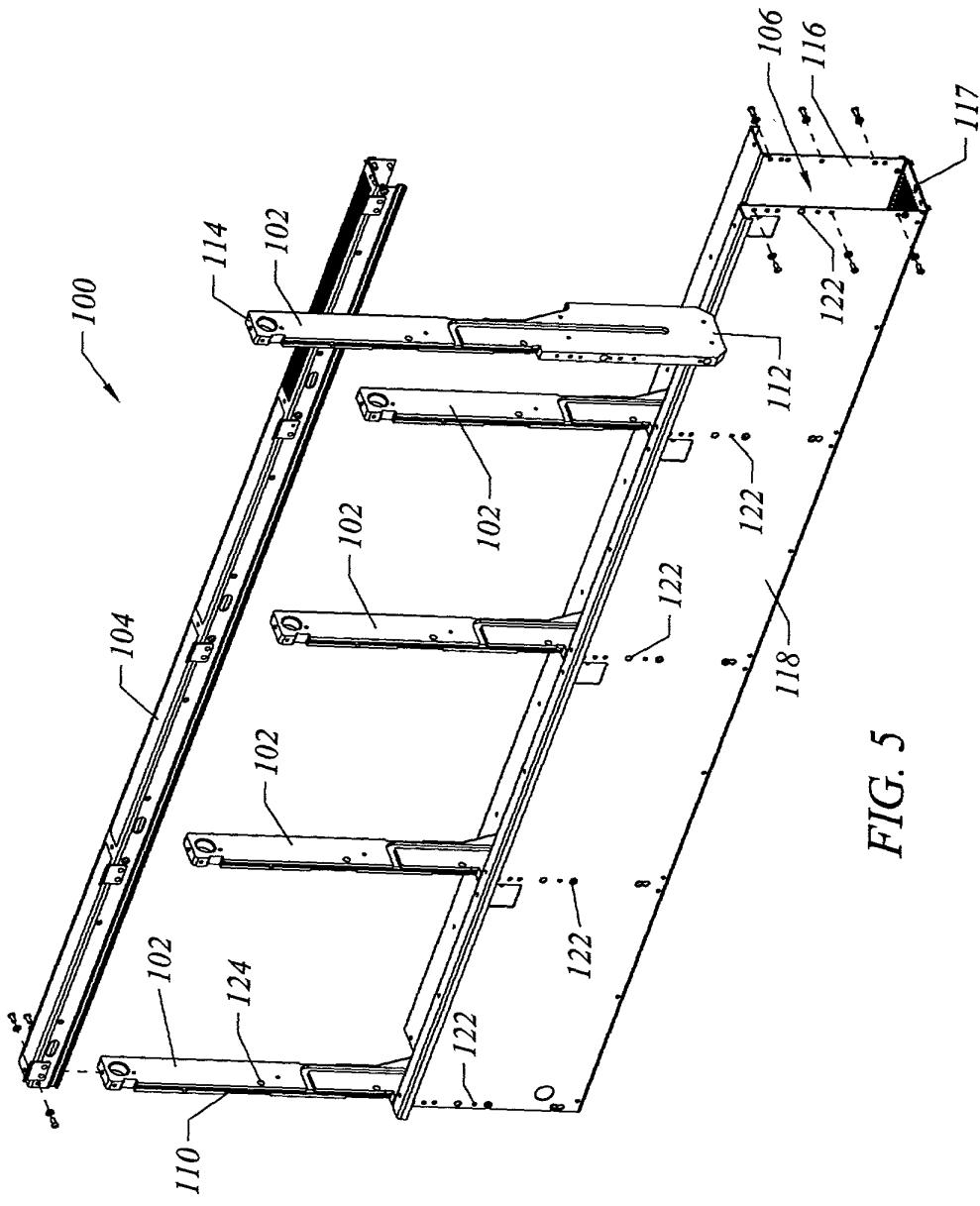


FIG. 5

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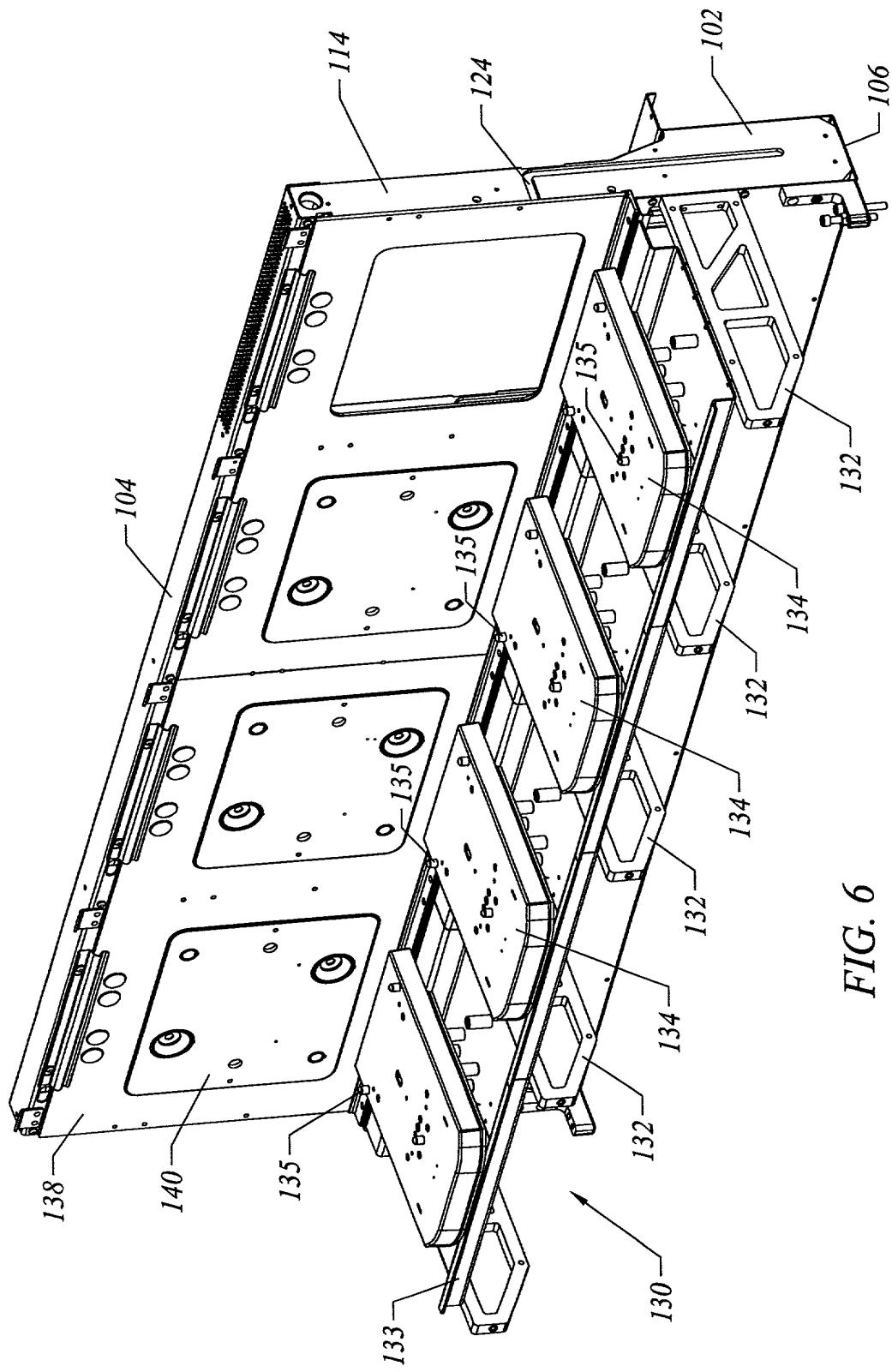


FIG. 6

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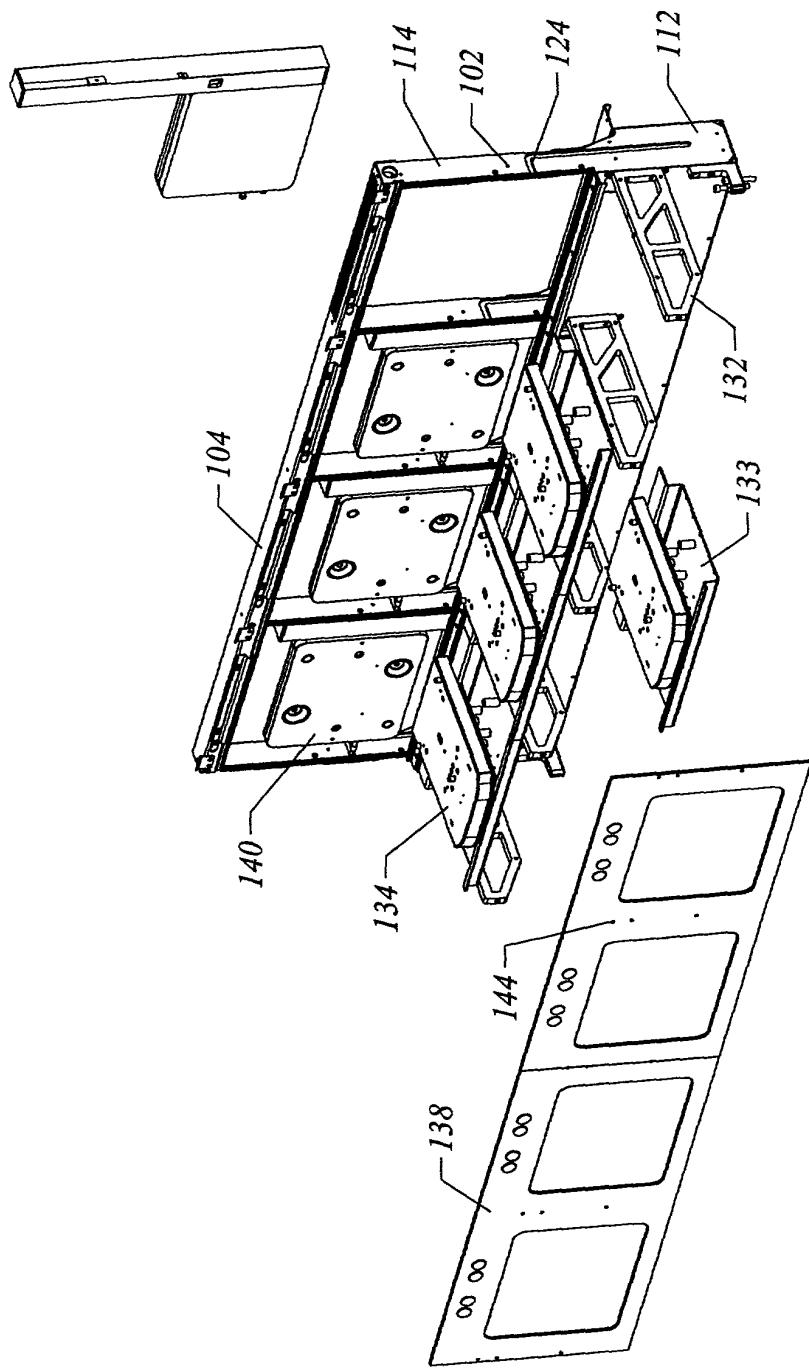


FIG. 7

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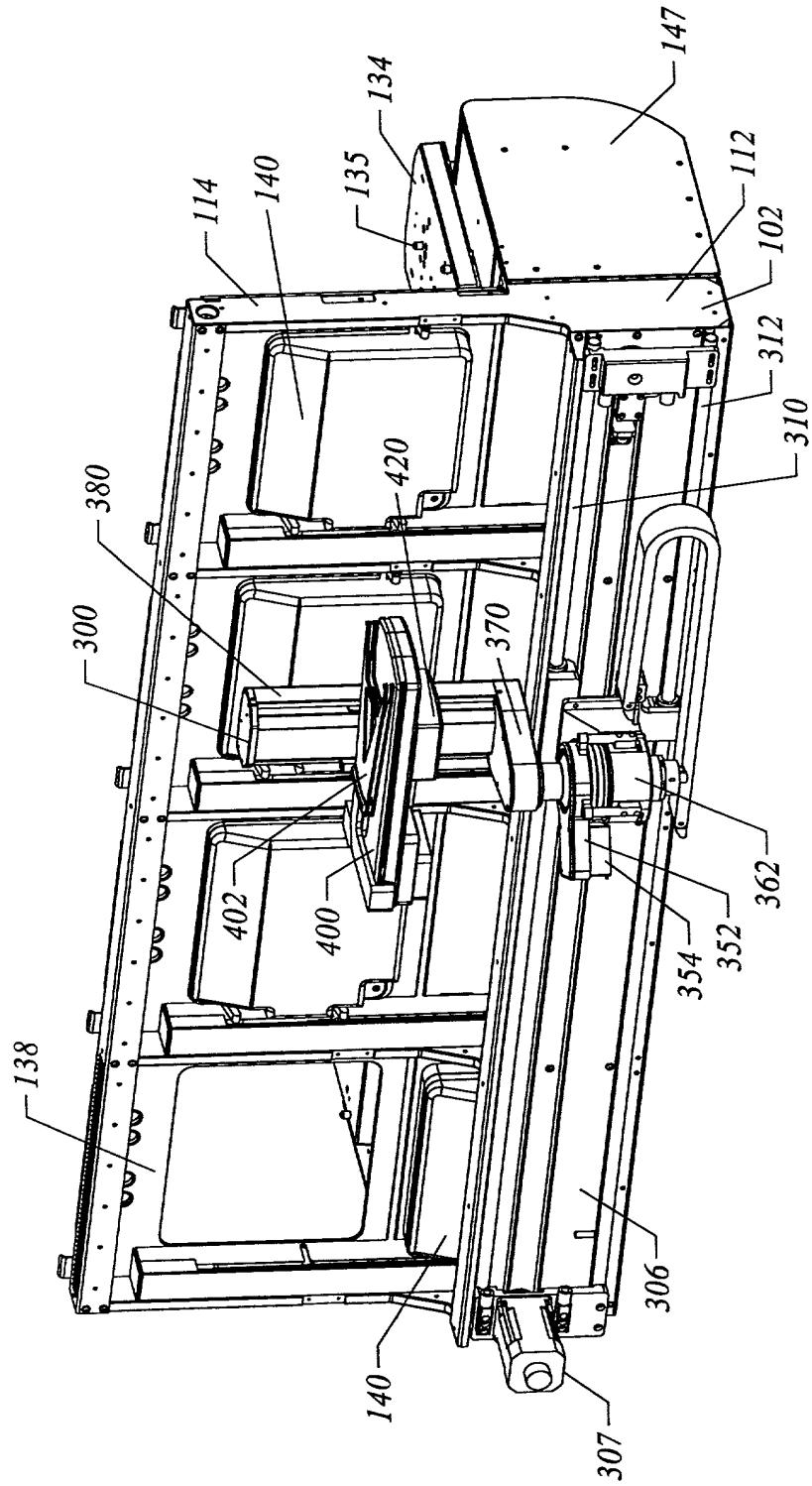


FIG. 8

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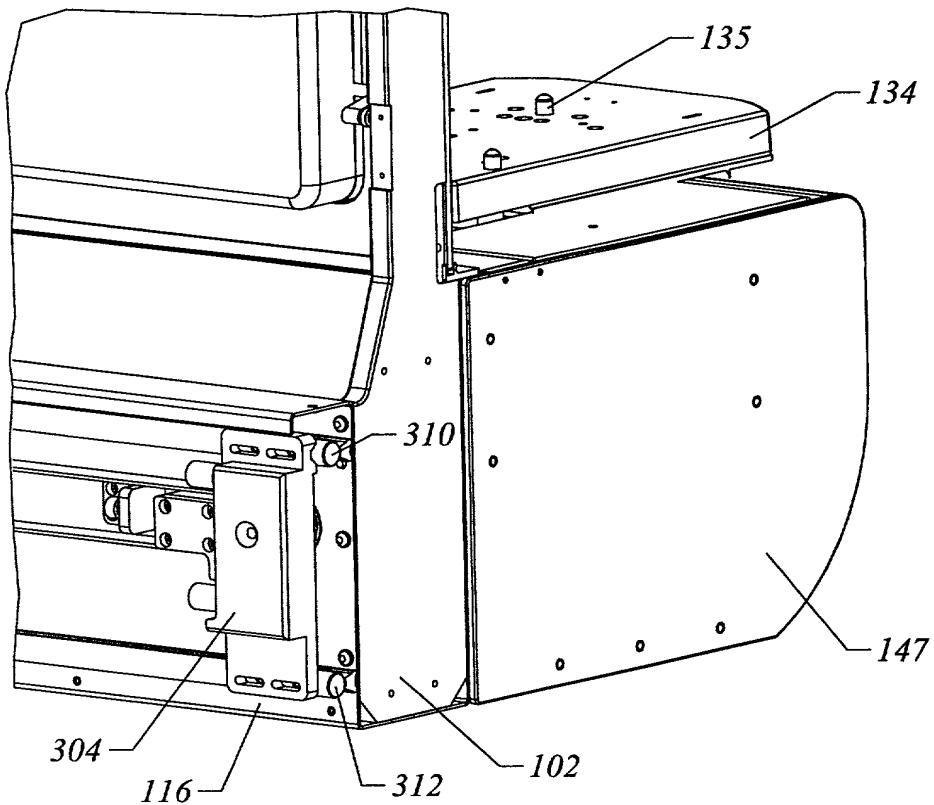


FIG. 9

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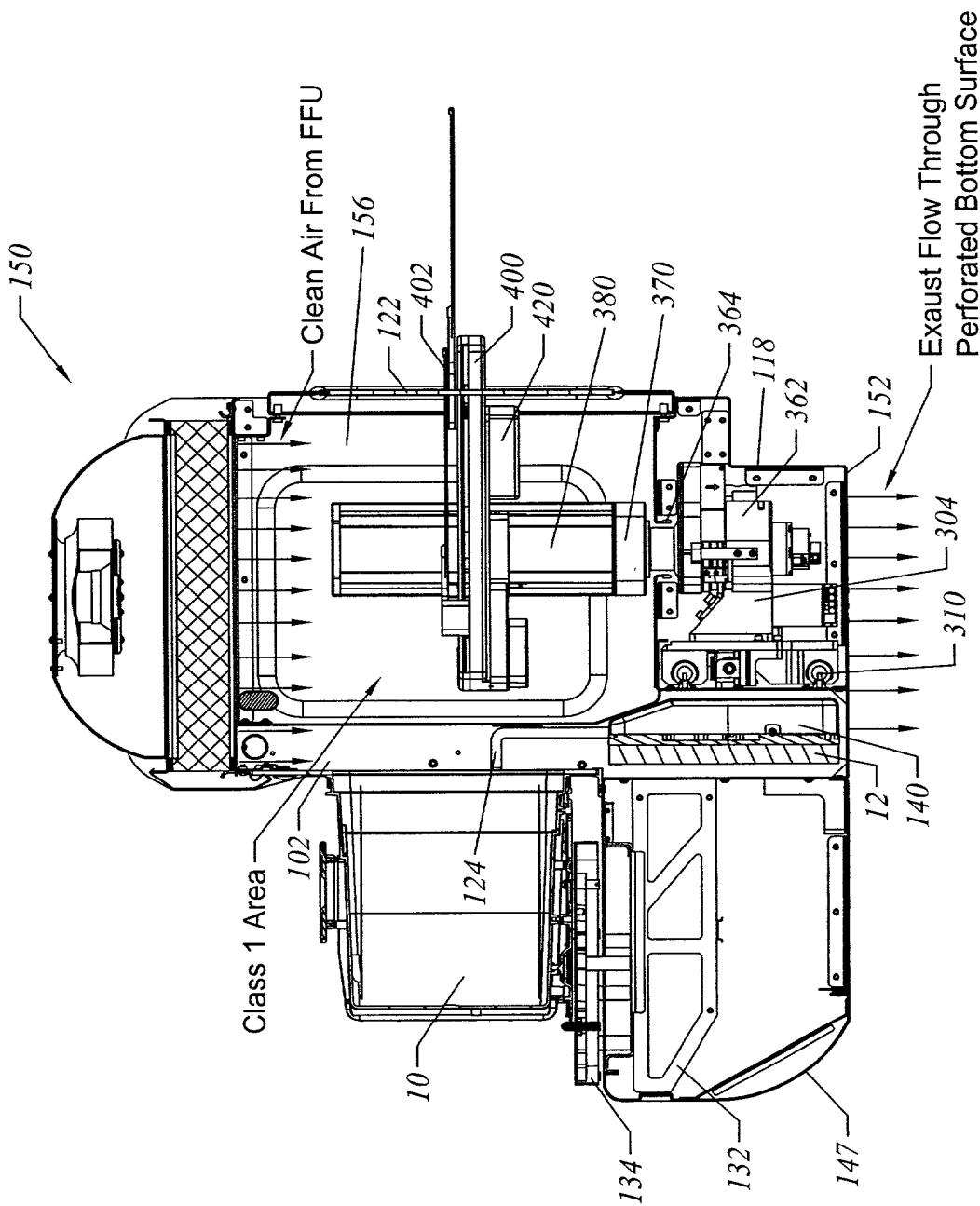


FIG. 10

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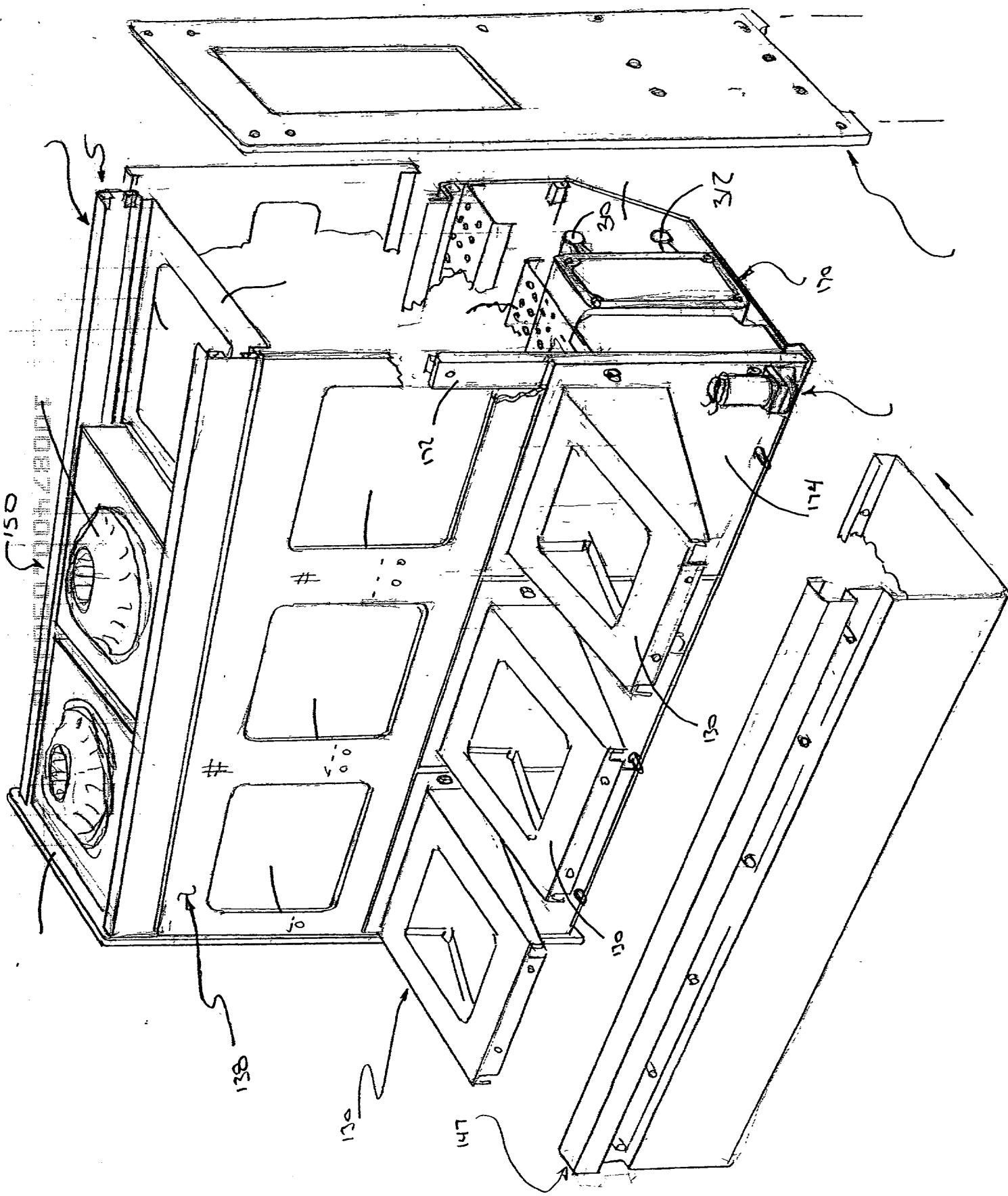


FIG. II

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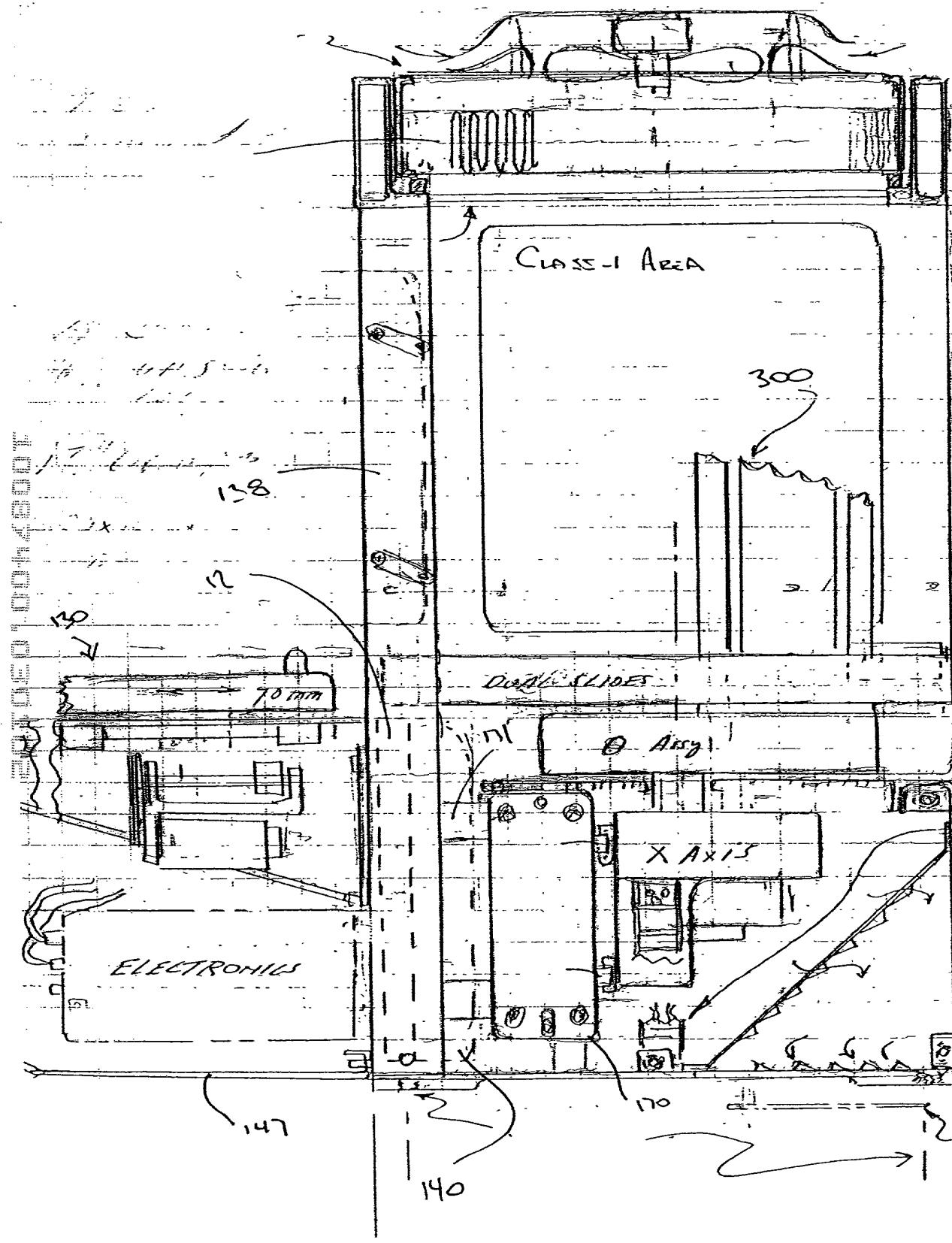


FIG. 12

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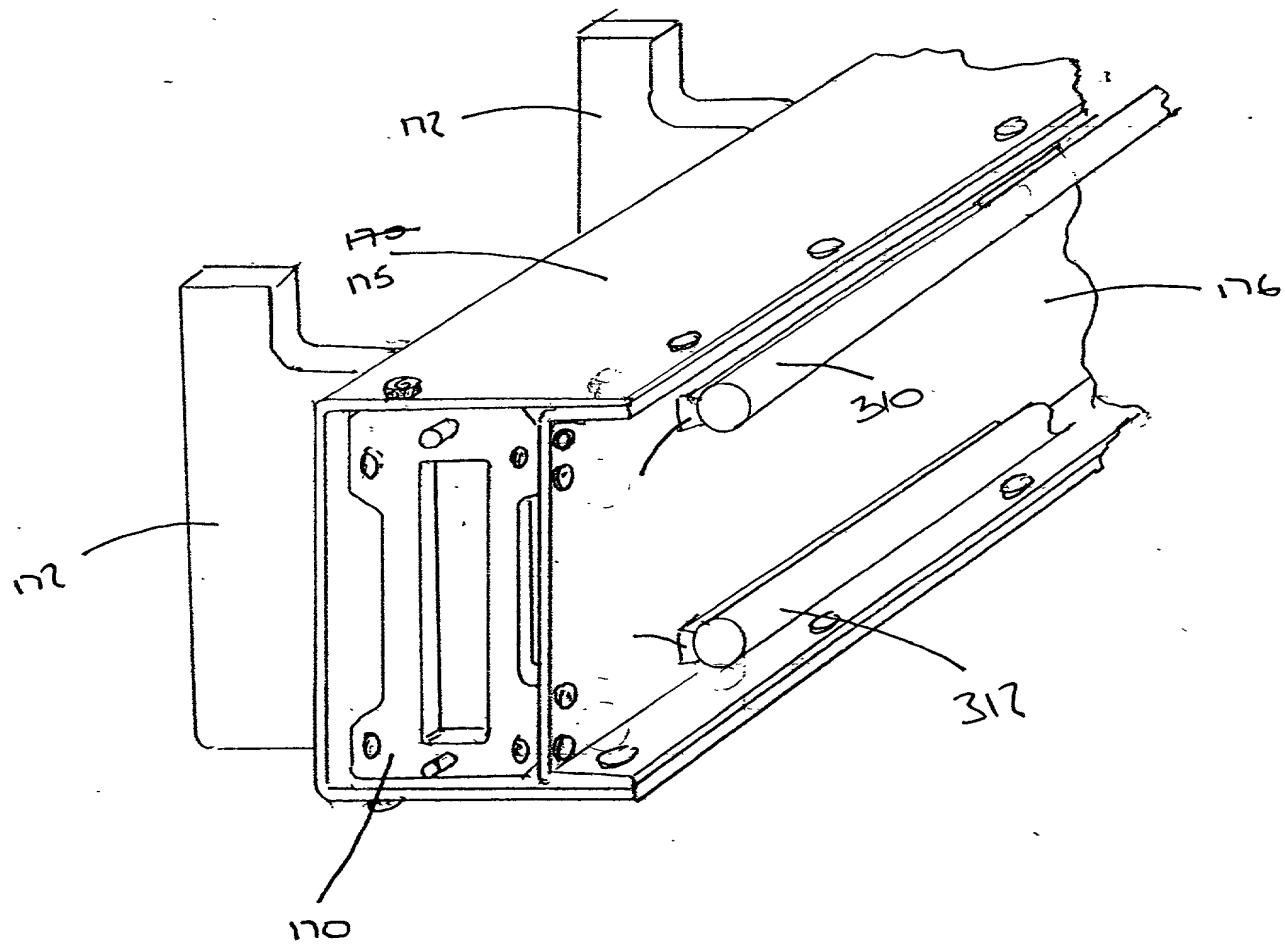


FIG. 13

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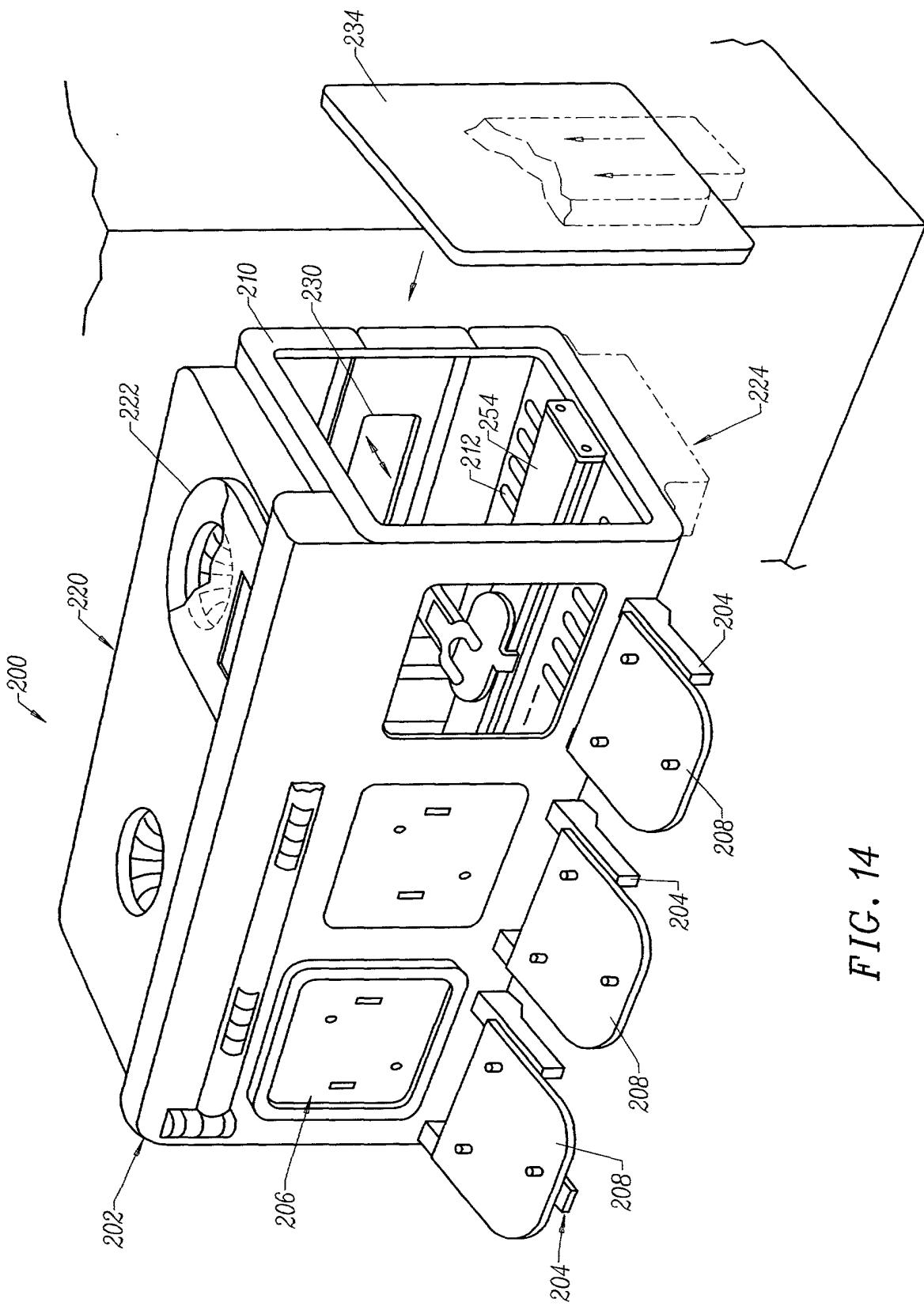


FIG. 14

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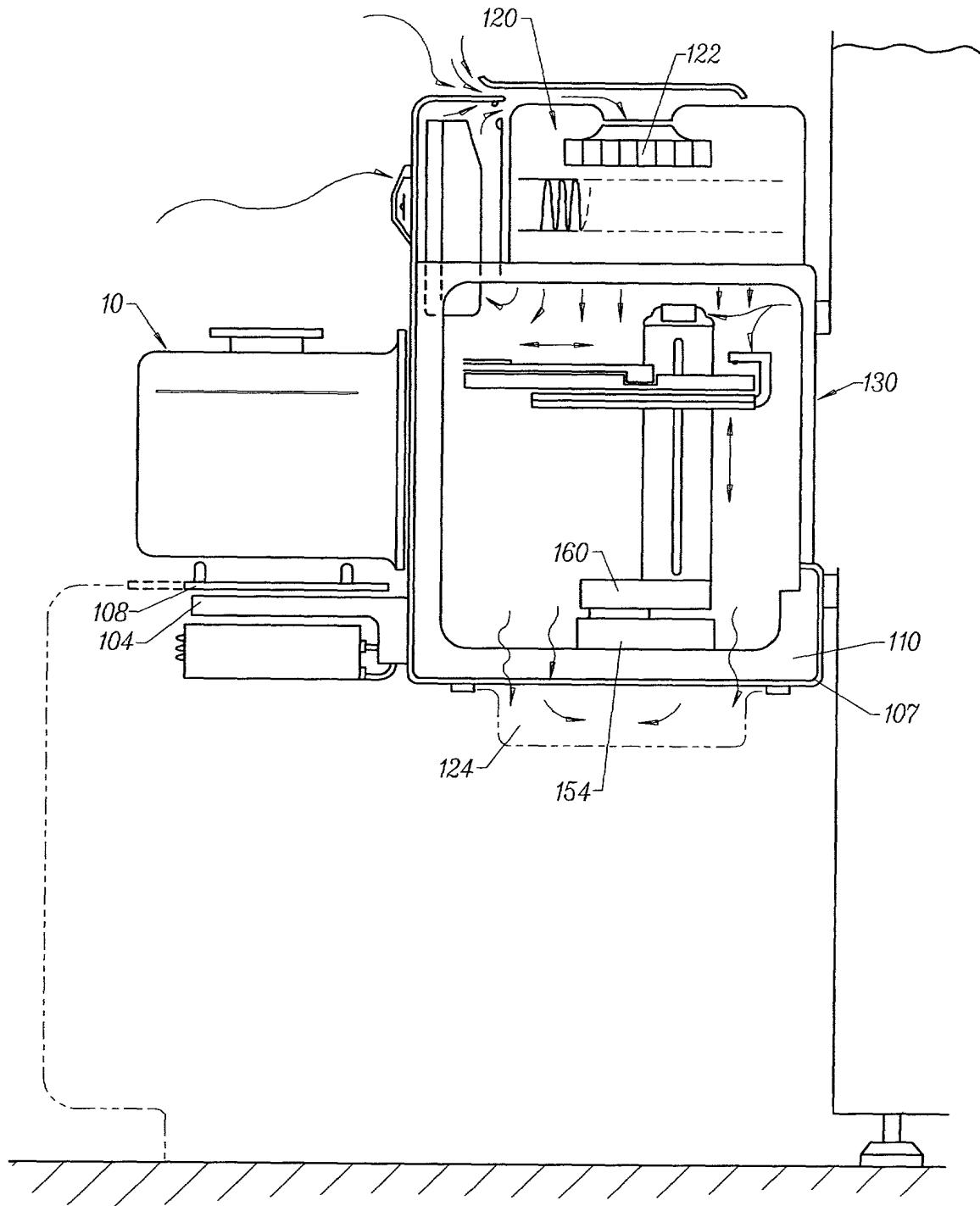


FIG. 15

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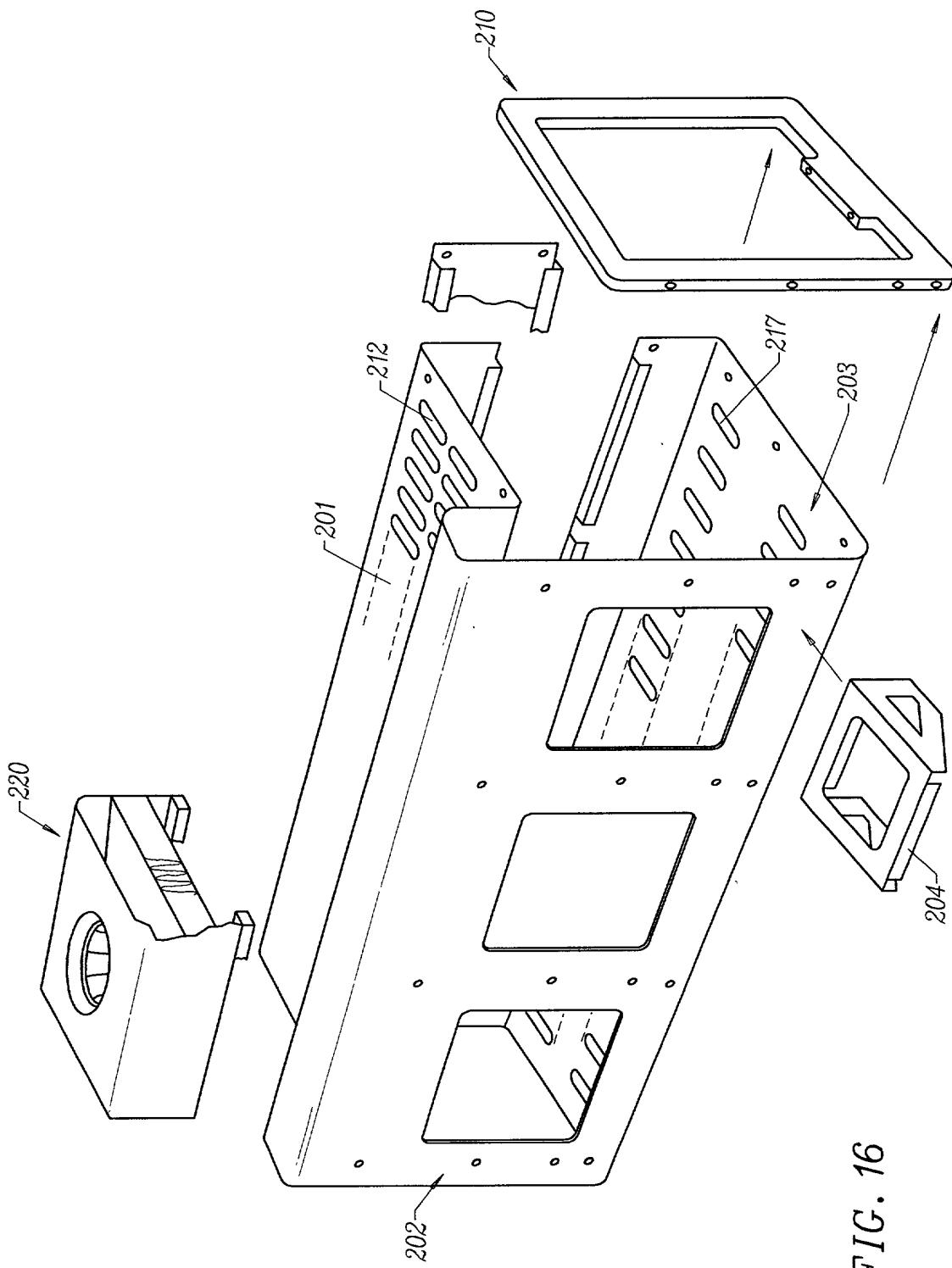


FIG. 16

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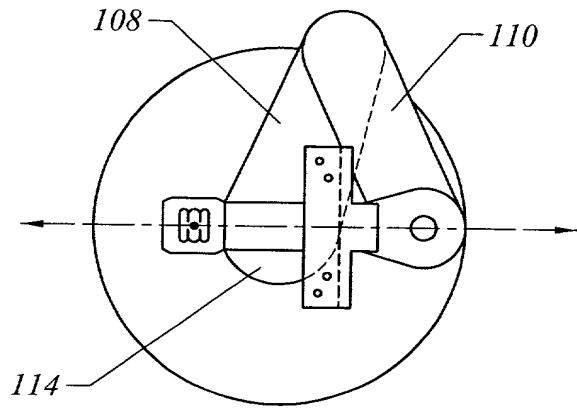


FIG. 17A
(*Prior Art*)

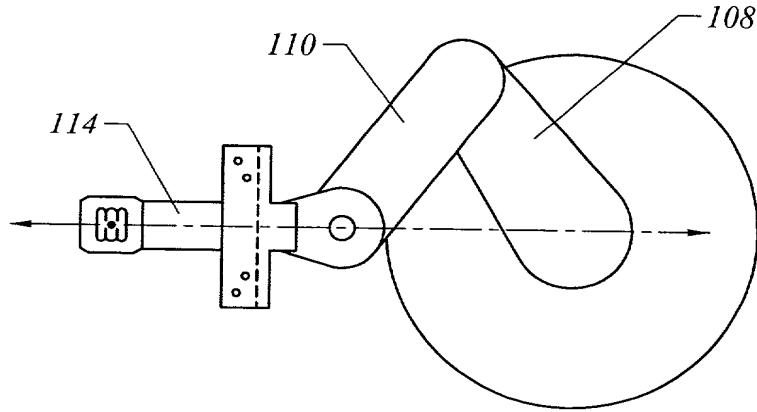


FIG. 17B
(*Prior Art*)

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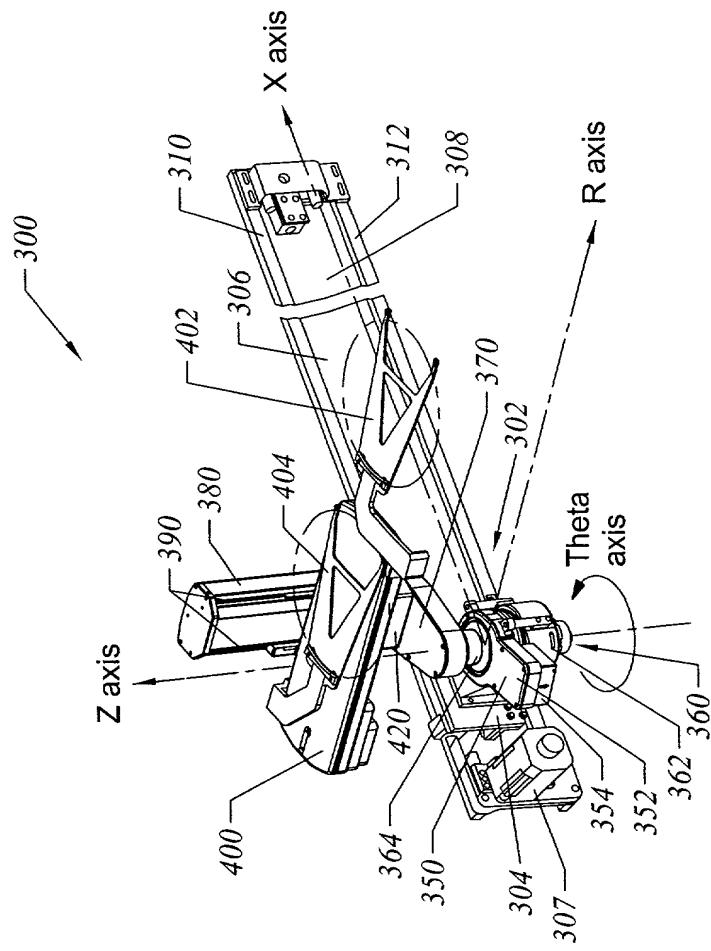


FIG. 18

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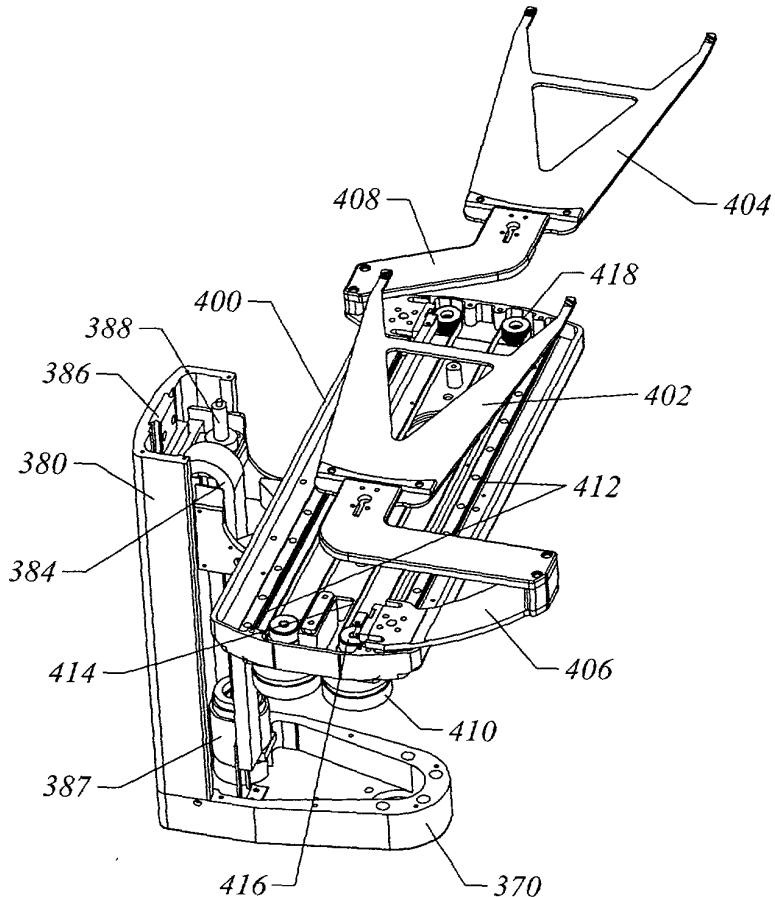


FIG. 19

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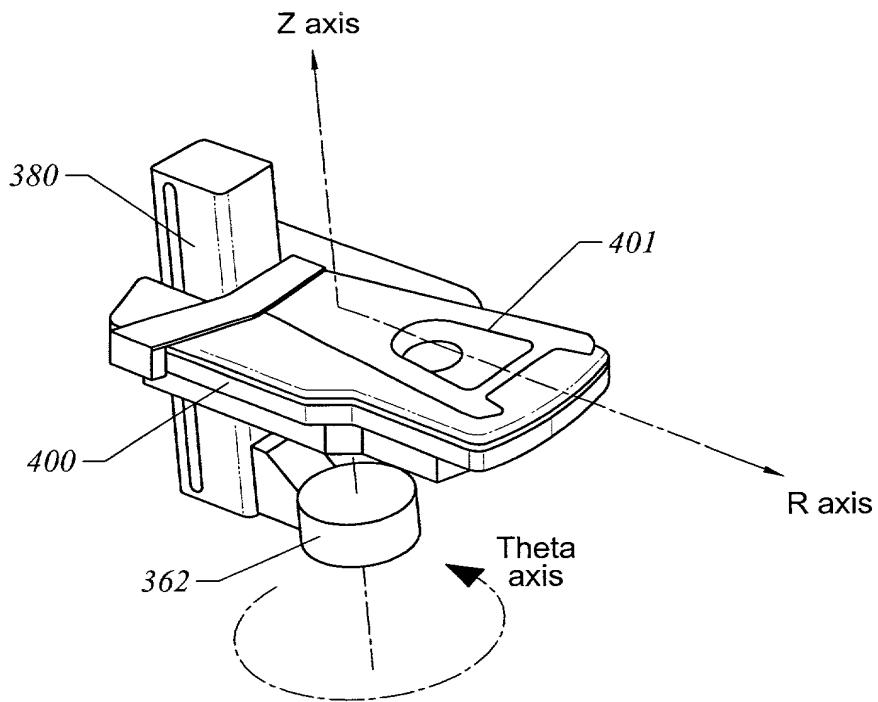


FIG. 20

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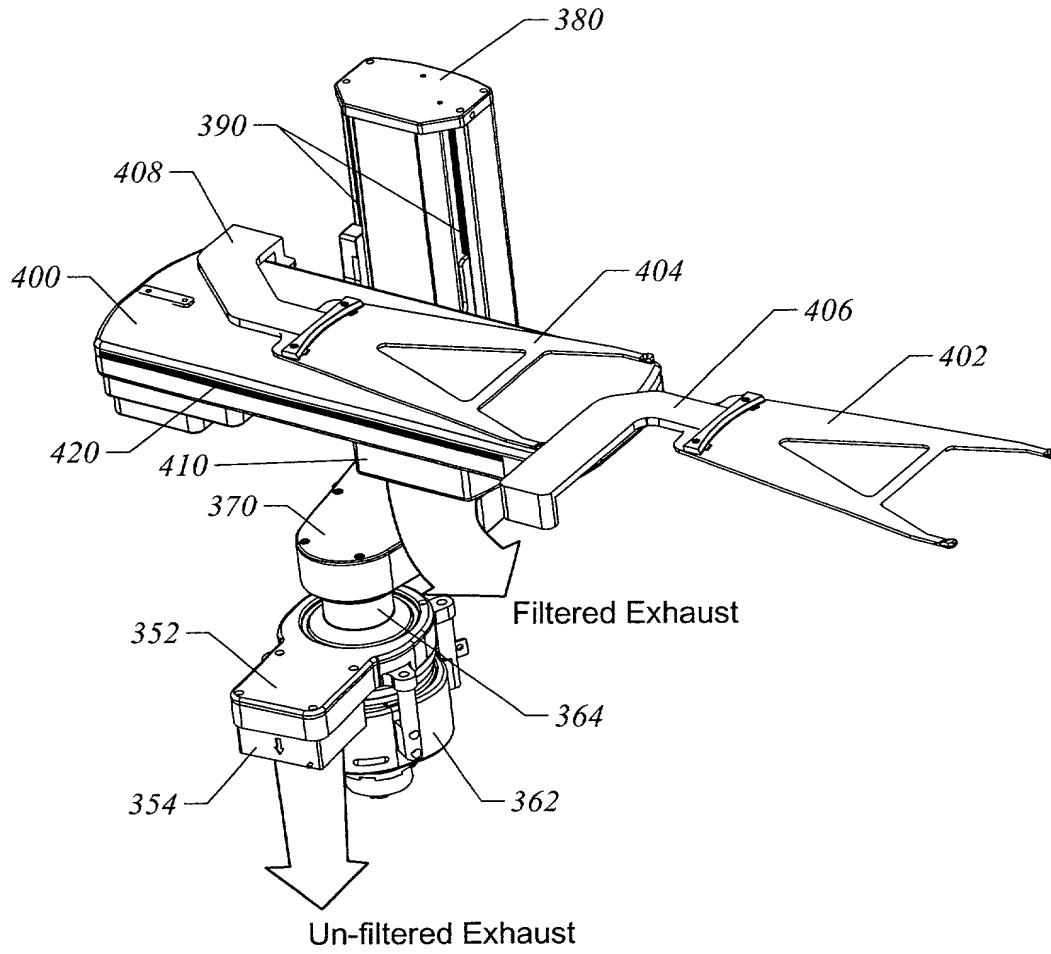


FIG. 21

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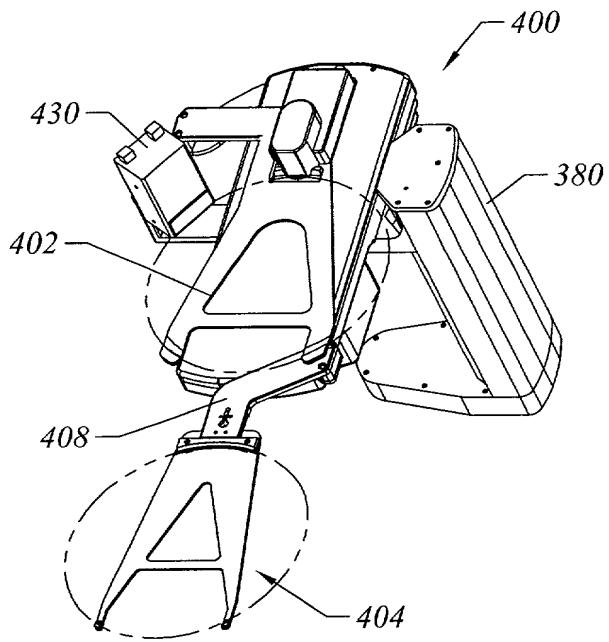


FIG. 22A

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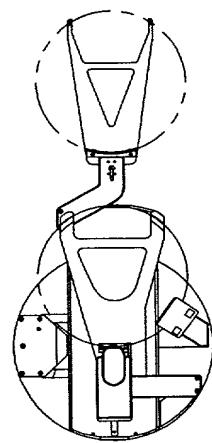


FIG. 22B

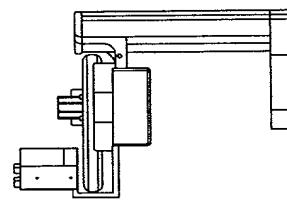


FIG. 22C

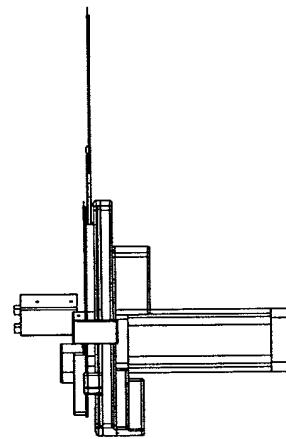


FIG. 22D

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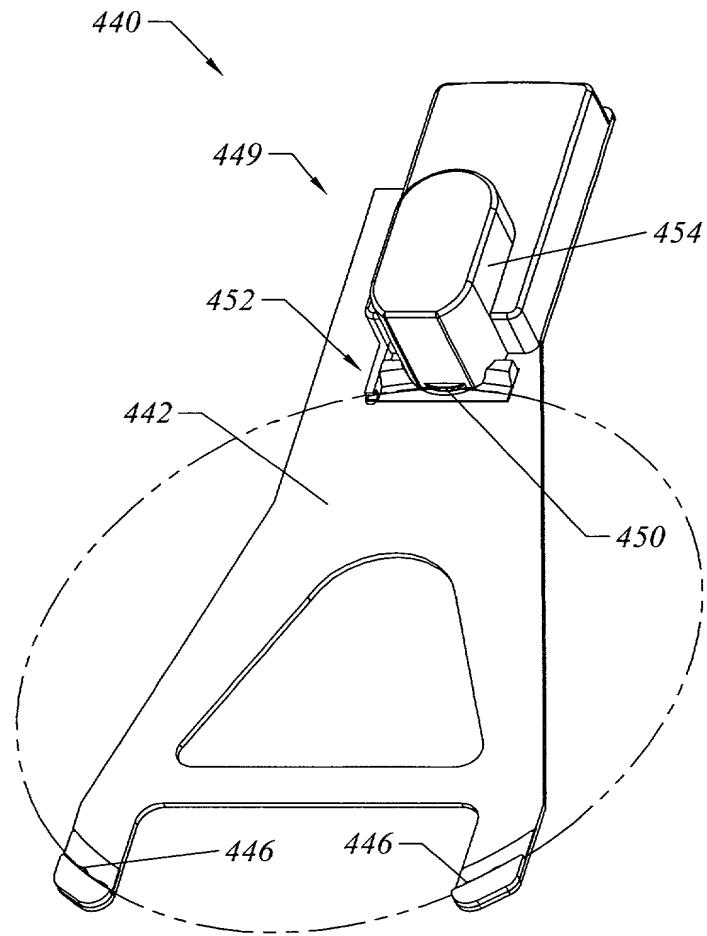


FIG. 23

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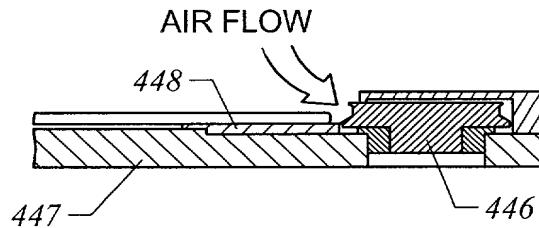


FIG. 24A

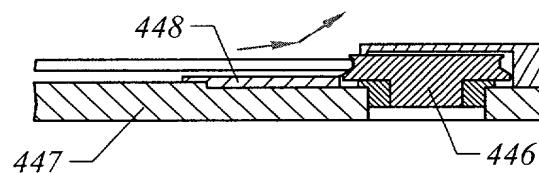


FIG. 24B

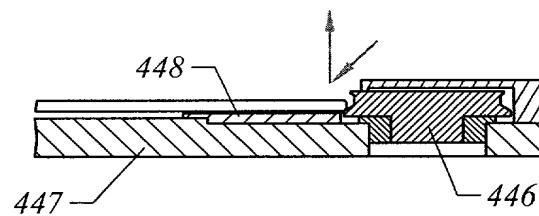


FIG. 24C

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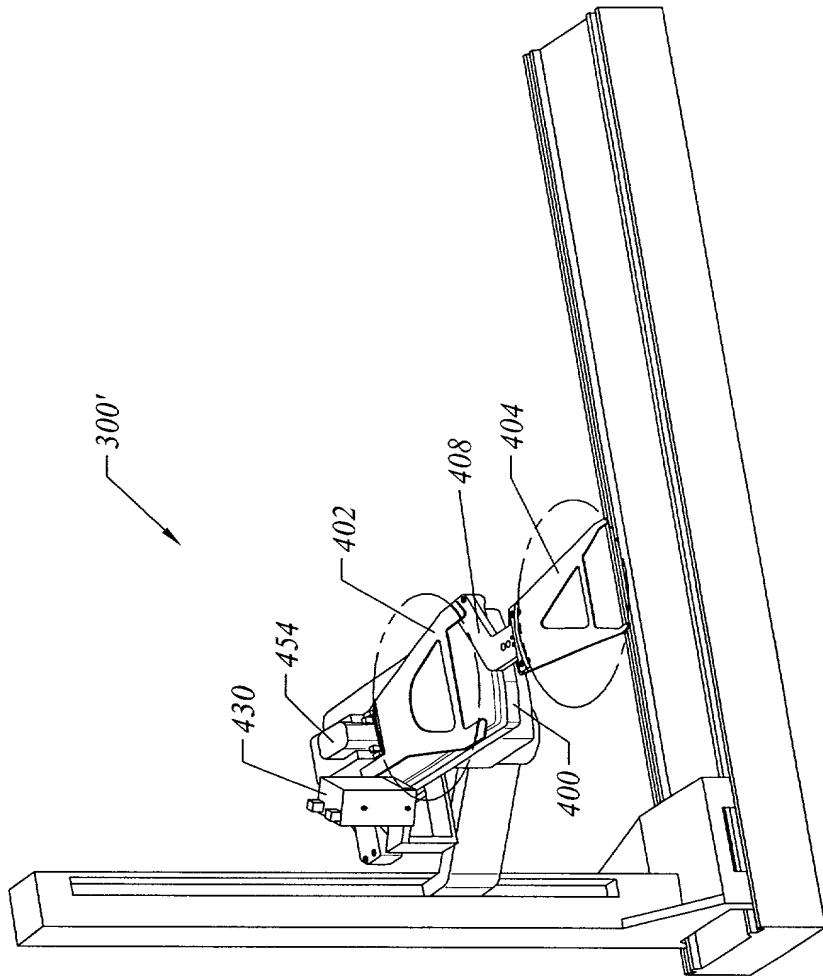


FIG. 25

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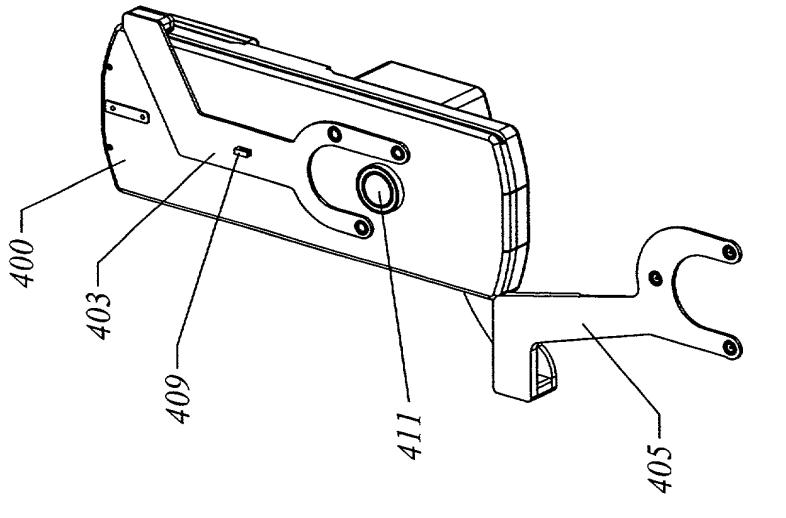


FIG. 26B

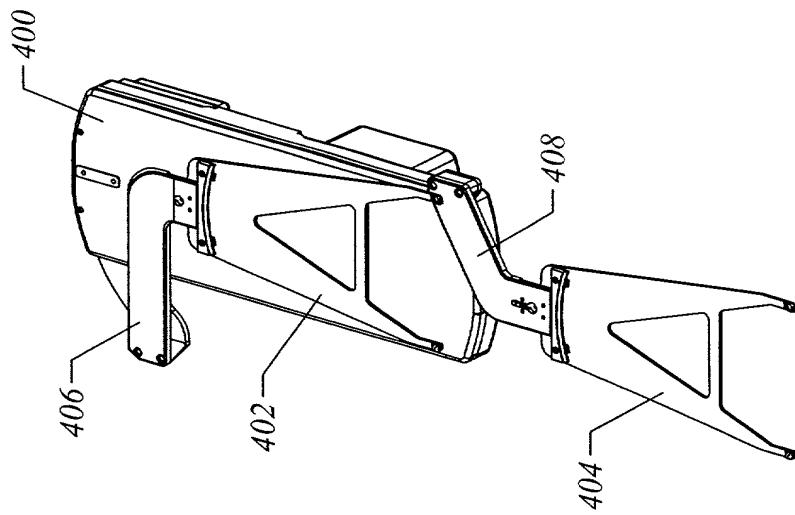


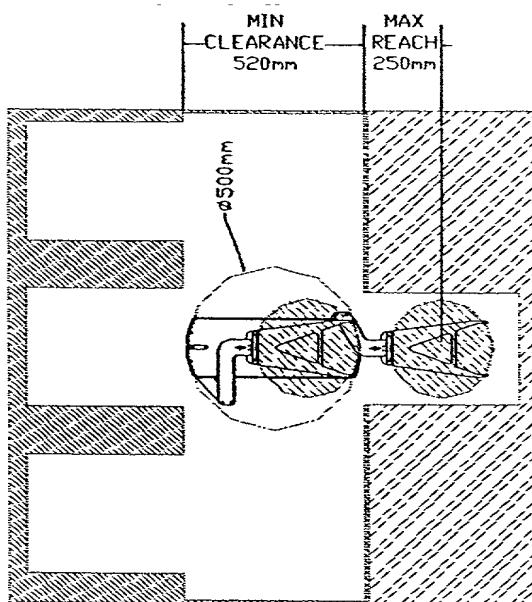
FIG. 26A

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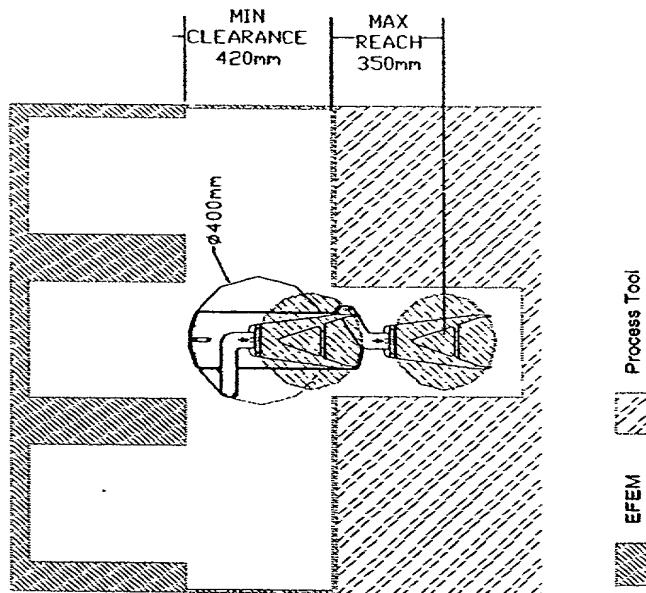
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Conventional Linear Slide Robot



Fk. 27A

Off-Center Slide-Body (50mm offset)



Fk. 27B

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Example motion sequence for rapid swap slide-body with off center rotation axis:

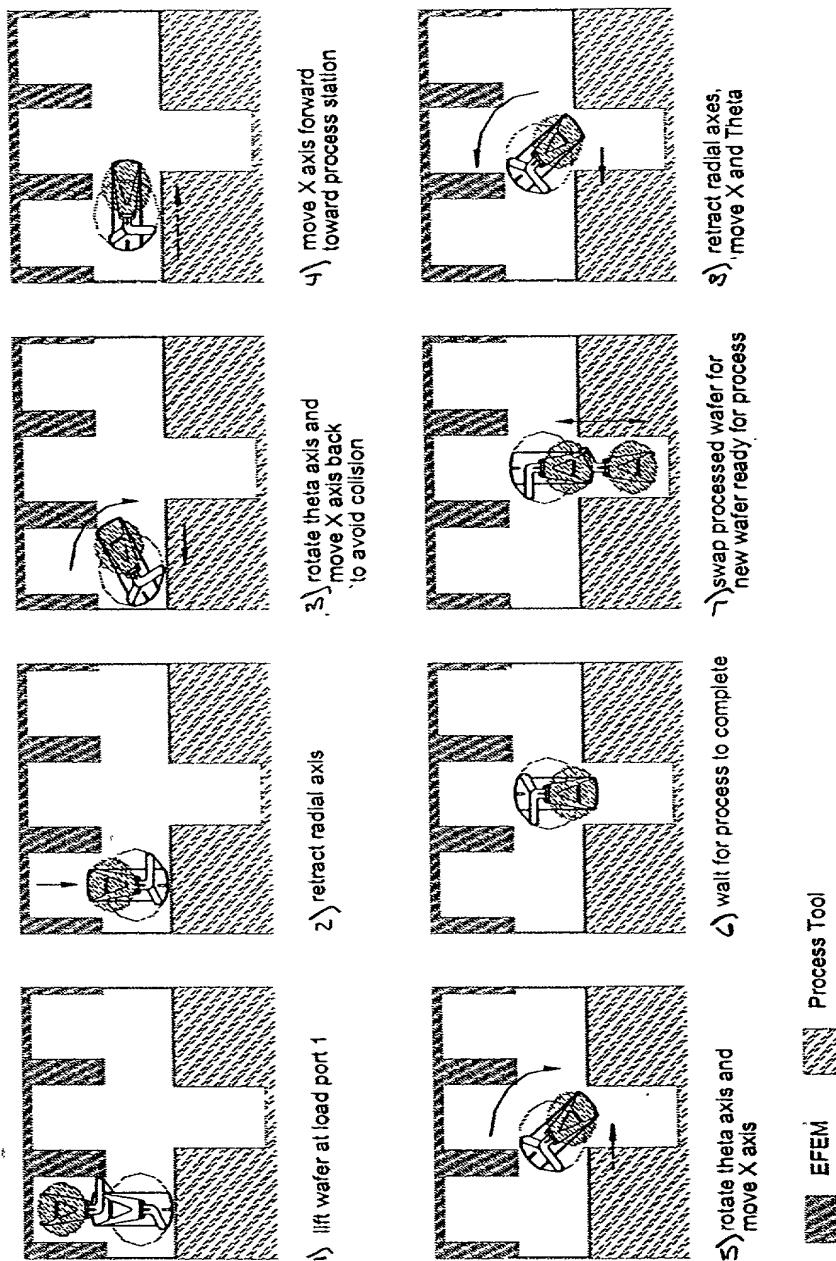


FIG. 2B

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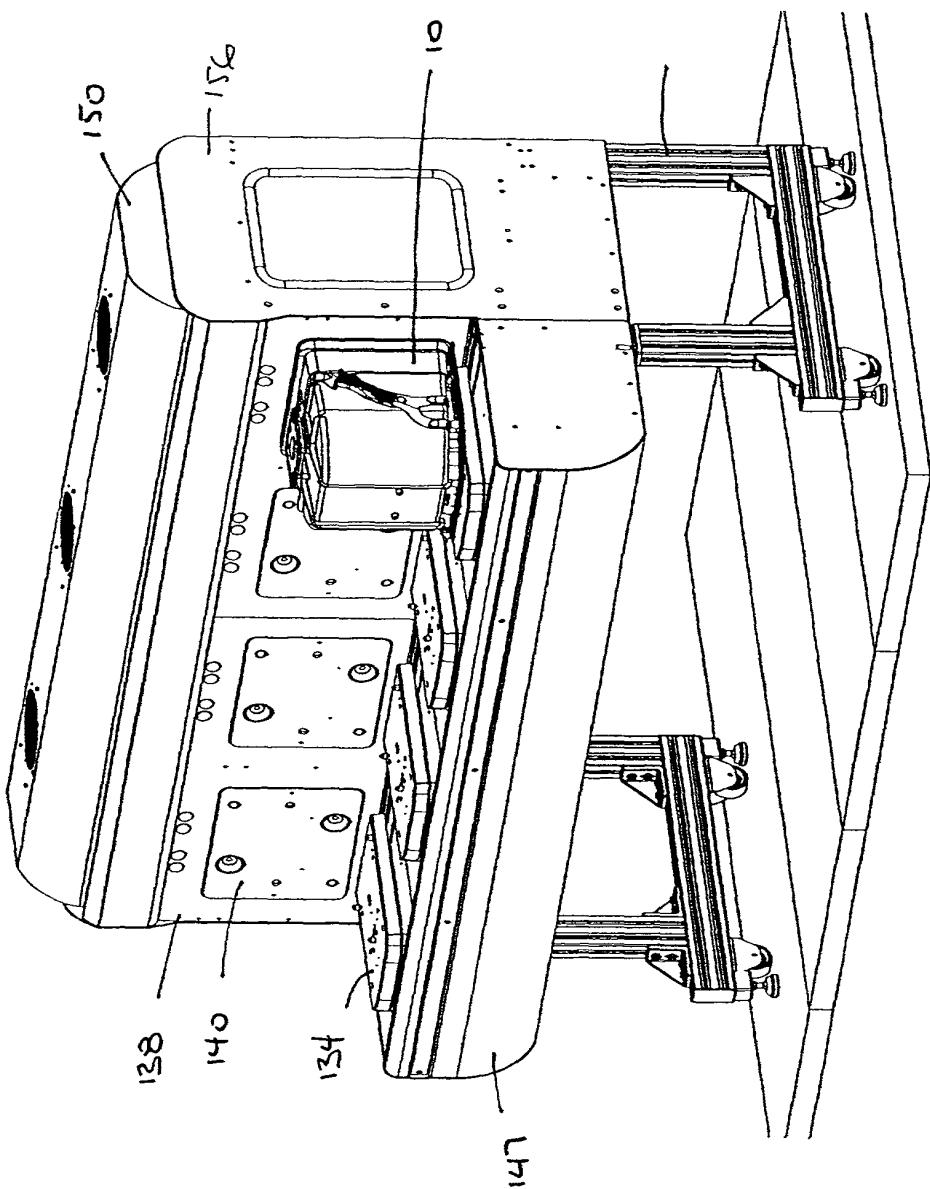


FIG. 29A

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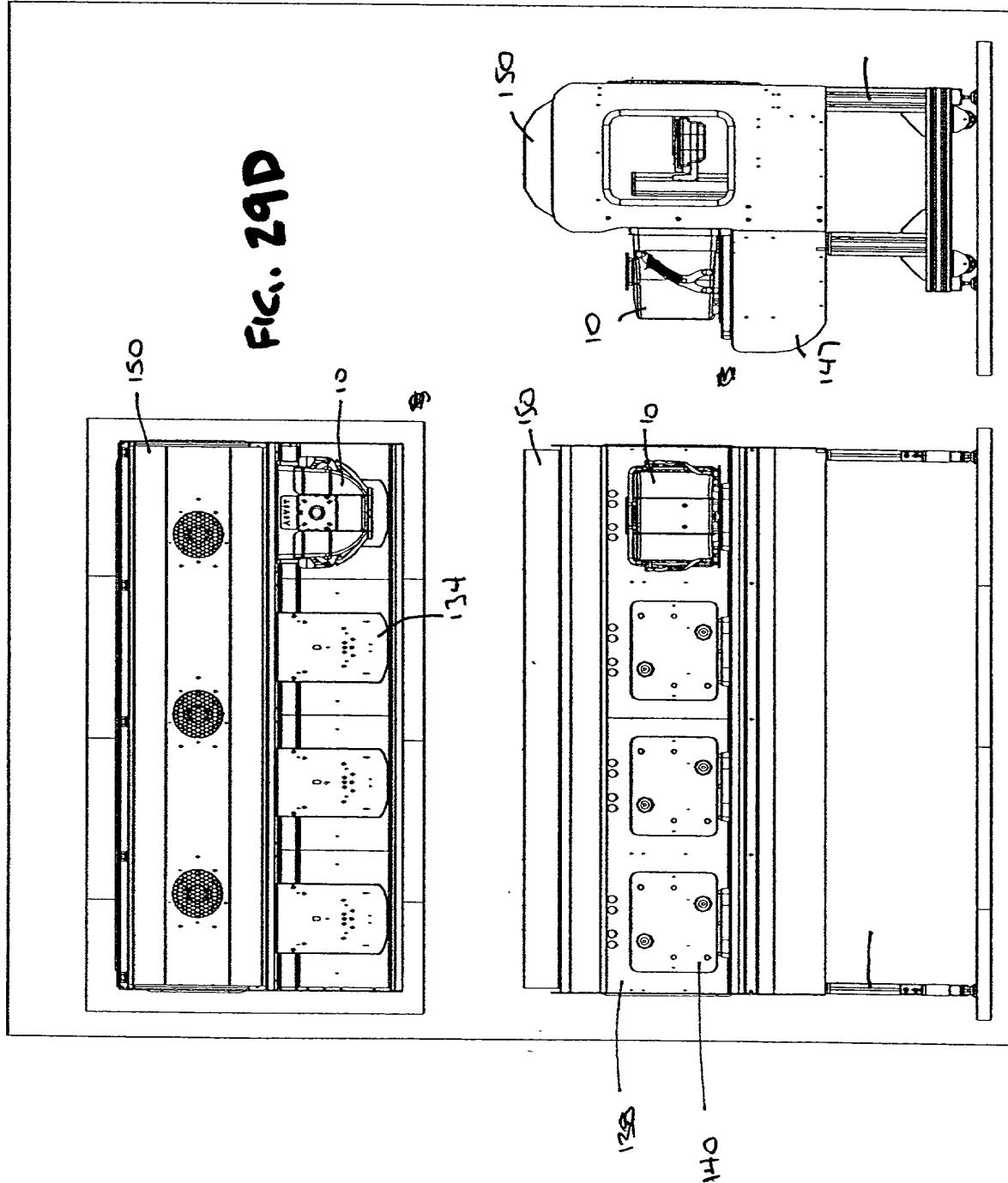


Fig. 29C

Fig. 29B

Fig. 29D

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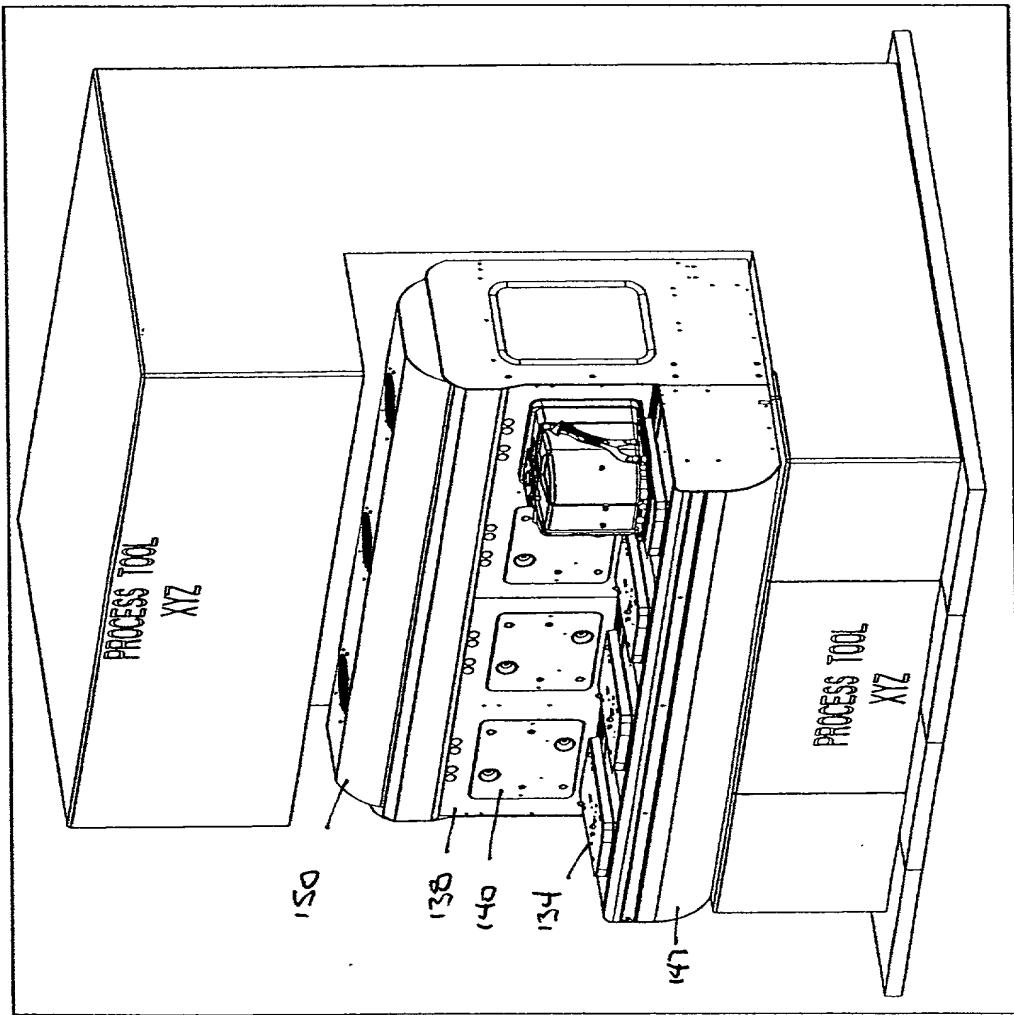


Fig. 30A

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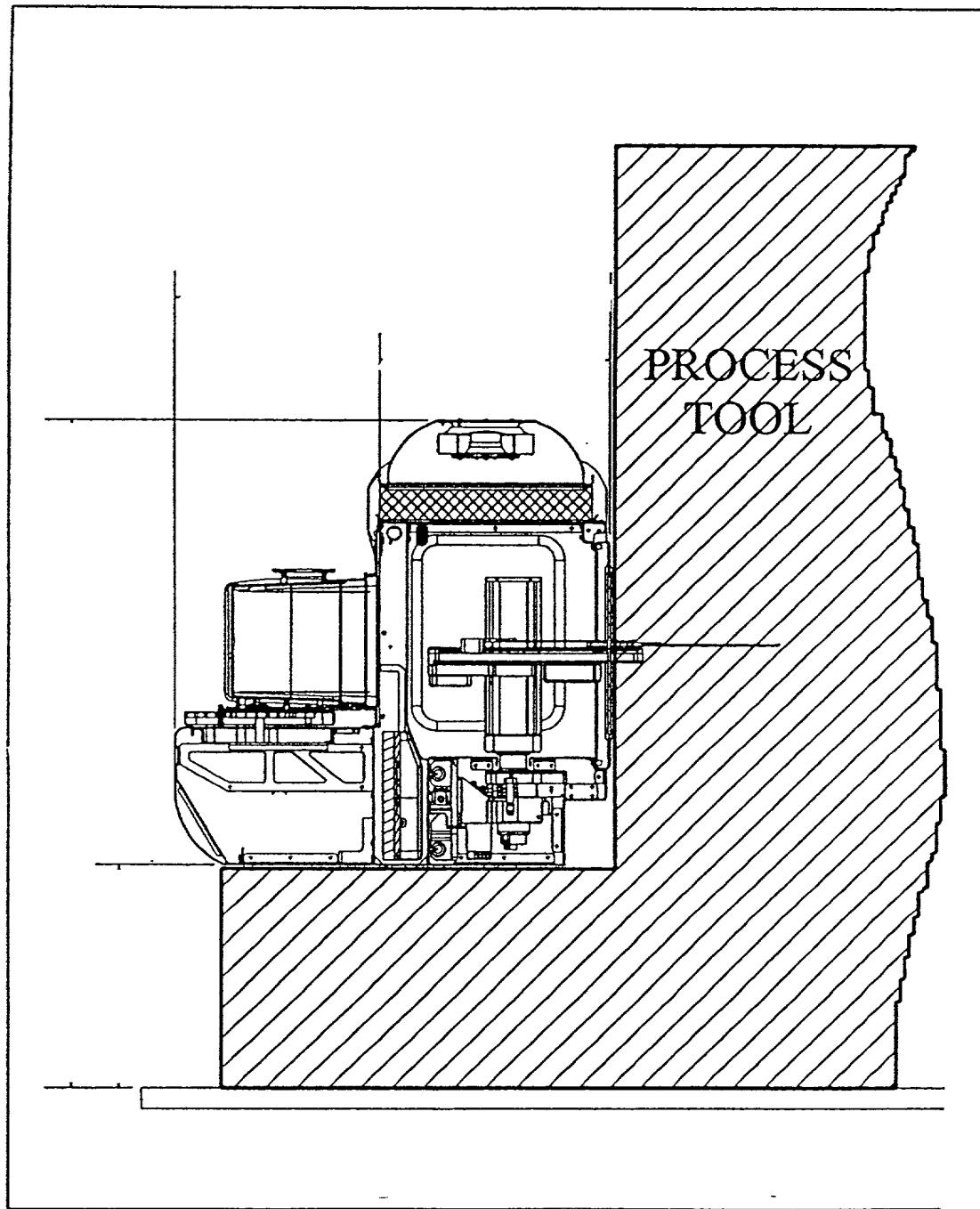


FIG. 30B

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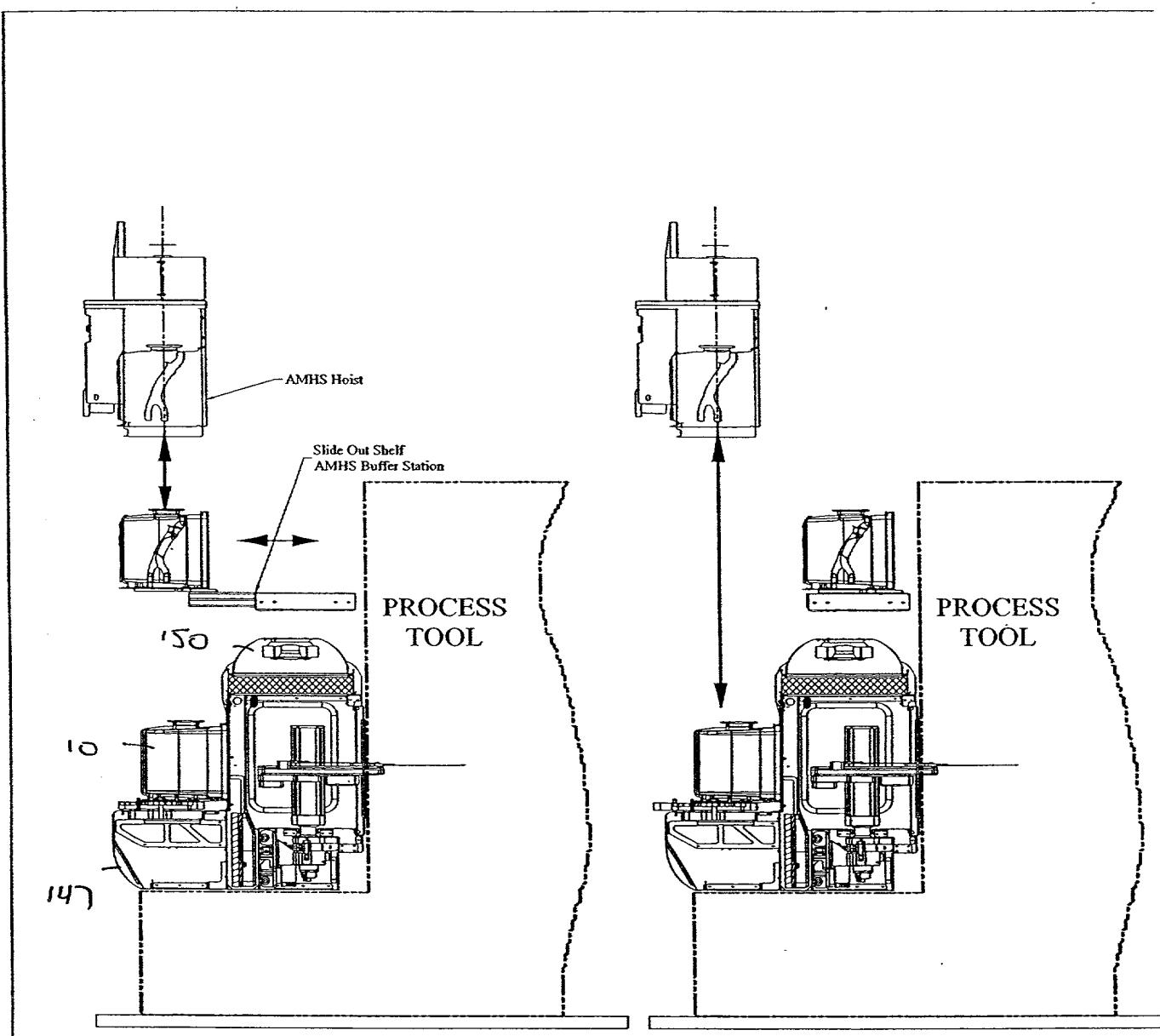


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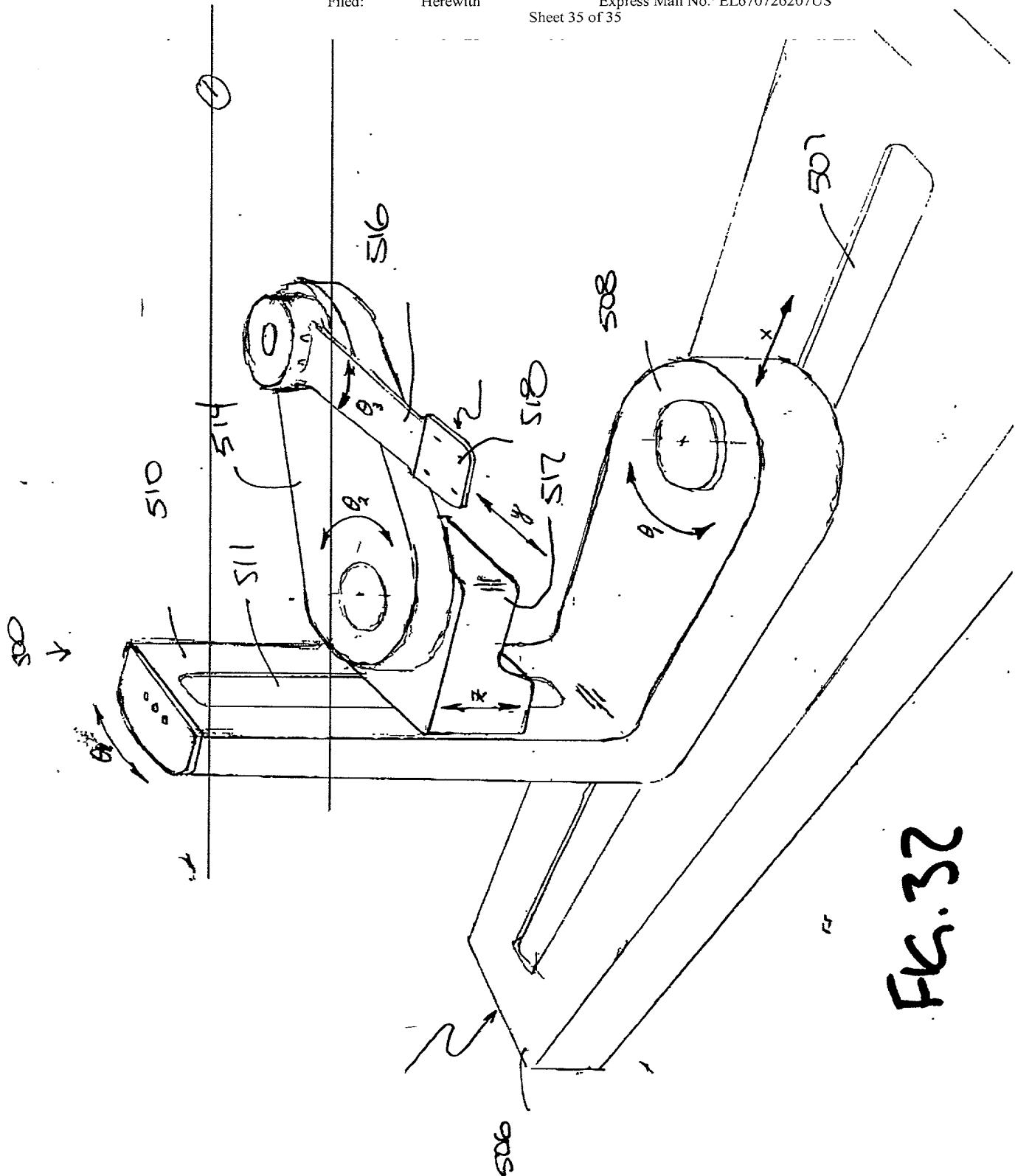


Fig. 32